

VOIP GLOSSARY

ALI	Automatic location identifier: A database that relates a specific telephone number (TN) to an address. This database accept a PSAP query with a TN and responds with an address. In the case of ESQK, the ALI database steers the query to the appropriate VPC and steers the response base to the PSAP. An ALI is typically owned by a LEC or a PSAP.
ANI	Automatic Number identification: Telephone number associated with the access line from which a call originates.
CBN	Callback Number: The VoIP subscriber's telephone number.
CRN	Contingency routing number: A 10-digit, 7x24 PSAP emergency telephone number. Used for fallback routing if a call cannot be routed through the selective router to the PSAP.
ESGW	Emergency services gateway: A component, residing in the VoIP service provider's network, responsible for integrating the SIP network with the emergency services network and routing 9-1-1 calls to the appropriate selective router, based on the ESRN/ESQK it receives from the regional call server on the 9-1-1 call server.
ESME	Emergency services message entity: The ESME routes and processes the out-of-band messages related to emergency calls. This functionality is sometimes incorporated into the ALI database engine of a selective router.
ESNE	Emergency Services network entity: The ESNE routes and processes the voice band portion of the emergency call. The ESNE is composed of selective routers, which are also known as routing, bridging and transfer switches.
ESQK	Emergency Services query key: A digit string that uniquely identifies an ongoing emergency services call and is used to correlate the emergency services call with the associated data messages. It may also identify an emergency services zone and may be used to route the call through the network. Similar to an ESRK in wireless E9-1-1 networks.
ESRN	Emergency Services routing number: A 10-digit number that specifies the selective router to be used to route a call.
ESZ	Emergency Services Zone: An ESZ is a range of addresses all of which are served by the same emergency-service responders.
First Responder	Police, fire or medial resource who is dispatched to handle 9-1-1 calls and deliver emergency services.
I2	NENA defined VoIP solution. I2 routes VoIP calls into the current E9-1-1 systems and to the correct PSAP with correct ANI and ALI. I2 accommodates both stationary and nomadic users and provides MSAG valid location information and provides a method for nomadic user location either through an automated process or user input via a service prompted web based form or equivalent. Intended migratory path from i1.

I3	<p>NENA defined VoIP phase E9-1-1 solution. Also referred to as Long Term, Next Generation 9-1-1.</p> <p>Enables end to end IP based E9-1-1 design, supporting VoIP originated call delivery and the transition of current wireline and wireless service providers to IP interface technology.</p> <p>Support IP mobility users, and all capabilities of I2. Utilizes extended capabilities of IP to provide location and other information with the call, as well as other sub-sets of relevant.</p>
Lat/Lon	<p>Latitude and Longitude: Latitude and Longitude are a coordinate system by means of which the position or location of any place on the earth's surface can be described. Also known as x,y.</p>
LEC	<p>A Telecommunications Carrier (TC) under the state/local Public Utilities Act that provide local exchange telecommunications services. Also known as incumbent Local Exchange Carriers (ILECs), Alternate Local Exchange Carriers (ALECs), Competitive Local Exchange Carriers (CLECs), Competitive Access Providers (CAPs), Certified Local Exchange Carriers (CLECs), and Local Service Providers (LSPs).</p>
LRO	<p>Last routing option: Routing information sent by the VPC that provides a "last chance" destination for a call, for example the CRN or a routing number associated with a national call center.</p>
Mobile Subscriber	<p>A subscriber who uses a wireless device that can be in motion during the call. Wireless Fidelity (WiFi) VoIP is expected to eventually allow the end user to take a home-based telephony connection and roam within an interconnected wireless network, much as cellular technologies allow today.</p>
MSAG	<p>Master Street Address Guide: An MSAG ledger is used by a municipality to assign a particular police, fire or rescue agency to a given street and number range.</p>
Nomadic Subscriber	<p>A subscriber who uses a device that is static during a call but does not have a static IP address assigned to it. Nomadic subscribers use Internet Service Provider (ISP) VoIP, which allows the end user to establish a telecommunications connection wherever he or she can obtain an Internet-based connection to her ISP provider.</p>
PSAP	<p>Public Safety Answering Point: A PSAP is the end point of an emergency services call. PSAPs are responsible for answering emergency services call (as defined in TIA J-STD-036)</p>
PSTN	<p>Public switched telephone network: The international telephone system based on copper wires carrying analog voice data.</p>
SIP	<p>Session Initiation Protocol: SIP is the IP-based protocol defined in IETF RFCs 3261 and 2543. SIP is one of the two dominant messaging protocols used by the VoIP industry.</p>

Selective Router

The node in the emergency services network that performs enhances call routing for 9-1-1 calls. Usually operated by the LEC.

Static Subscriber

A subscriber who uses a device that is static during a call and has a static IP address assigned to it. Static subscribers use cable and DSL VoIP, often deployed in static configurations in which the end user stays at a fixed location and uses the standard North American Numbering Plan. Examples of this service include residential landline replacements using cable or DSL connections.

(911) System Service Provider

The entity that manages, maintains and provides various 9-1-1 elements such as ALI database, MSAG to Public Safety Answering Points. This function is often performed by the LEC.

V-E2

An extension to the E2 ALI interface (specified in TIA J-STD-036). V-E2 is defined by the NENA VoIP Location Working Group. V-E2 provides support for a "VoIP" class-of-service indicator in the response message from the VPC to the ALI.

VoIP

Voice Over Internet Protocol: VoIP is a system for providing telephone service over the internet.

VoIP Provider

A generic term to describe a company that provides VoIP call services. Some VoIP providers provide direct service to the consumer (VoIP service providers). Others provide backbone and PSTN access services (VoIP carriers). Still others provide ESGW (ESGW operators). Some VoIP providers provide more than one of these Services

VPC

VoIP positioning center: The application that determines the appropriate PSAP, based on the VoIP subscriber's position, returns associated routing instructions to the VoIP network, and provides the caller's location and the callback number to the PSAP through the ALI.